



# **Transportation Engineering Technician**

**Exam Code: 5PB17**

**Department:** California Department of Transportation

**Exam Type:** Departmental, Open

**Final Filing Date:** Continuous

## **CLASSIFICATION DETAILS**

**Transportation Engineering Technician** – \$3,360.00 - \$6,005.00 per month.

View the [classification specification](#) for the Transportation Engineering Technician classification.

## **APPLICATION INSTRUCTIONS**

Final Filing Date: Continuous

### **Who Should Apply:**

Applicants who meet the minimum qualifications as stated on this bulletin may apply for and take this examination.

Once you have taken this examination, you may not retake it for **12 months**.

### **How To Apply:**

The link to connect to the Training and Experience Evaluation is located farther down on this bulletin in the “Taking the Exam” section.

### **Special Testing Arrangements:**

If you require assistance or alternative testing arrangements due to a disability, please contact the testing department listed in the Contact section of this bulletin.

## **MINIMUM QUALIFICATIONS**

All applicants must meet the education and/or experience requirements as stated on this exam bulletin to be accepted into the examination. Part-time or full-time jobs,

regardless of whether paid or volunteer positions, and inside or outside California state service will count toward experience.

## **Transportation Engineering Technician**

### **Either 1**

Experience: One year, in the California state service [performing duties comparable to](#) those of a Junior Engineering Technician, Range B.

### **Or 2**

Education: Two years of education equivalent to completion of a curriculum beyond the 12<sup>th</sup> grade in either (1) engineering which includes courses in trigonometry and algebra or higher, drafting, computer science, and physics, chemistry, or a comparable physical science; or (2) surveying which includes courses in trigonometry and algebra or higher, drafting, surveying, and computer science.

### **Or 3**

Experience: Three years of [nonprofessional civil engineering experience](#). (In the California state service, the Junior Engineering Technician meets the qualification.) **and**  
Education: Equivalent to completion of the 12<sup>th</sup> grade.

## **POSITION DESCRIPTION**

### **Transportation Engineering Technician**

Under supervision, in a first and full journey working level capacity, to do complex nonprofessional highway, bridge, and materials testing engineering office or field work; and to do other related work.

## **EXAMINATION SCOPE**

This examination consists of the following components:

**Training and Experience Evaluation** – Weighted 100% of the final score.

The examination will consist solely of a **Training and Experience Evaluation**. To obtain a position on the eligible list, a minimum score of 70% must be received. Applicants will receive their score upon completion of the Training and Experience Evaluation process.

In addition to evaluating applicants' relative knowledge, skills, and ability, as demonstrated by quality and breadth of education and/or experience, emphasis in each exam component will be measuring competitively, relative job demands, each applicant's:

## Transportation Engineering Technician Knowledge

of:

1. Using and adjusting precision surveying instruments.
2. Methods, materials, tools, and equipment used in highway and bridge construction and maintenance work.
3. Methods of proportioning and handling Portland cement concrete.
4. Proportioning and handling bituminous surfacing materials and the handling of asphaltic oils and emulsions.
5. Physical characteristics and properties of highway and bridge construction materials and the approved methods and equipment used in making physical tests of construction materials.
6. Highway grading, construction, and maintenance.
7. Traffic operations, methods, and procedures.
8. Conventional and state-of-the-art computer applications to transportation engineering work.

### Ability to:

1. Communicate effectively at a level required for successful job performance; use and adjust precision surveying instruments.
2. Assist in highway and bridge design work.
3. Make accurate engineering calculations.
4. Inspect construction work and enforce compliance with plans and specifications.
5. Analyze situations accurately and take effective action.
6. Prepare reports.

## ELIGIBLE LIST INFORMATION

A departmental, open eligible list for the **Transportation Engineering Technician** classification will be established for:

### California Department of Transportation

The names of **successful** competitors will be merged onto the eligible list in order of final score regardless of exam date. Eligibility expires **12 months** after it is established.

Applicants must then retake the examination to reestablish eligibility. Veterans'

Preference will be granted for this examination. In accordance with

Government Codes 18973.1 and 18973.5, whenever any veteran, or widow or widower of a veteran achieves a passing score on an open examination, he or she shall be ranked in the top rank of the resulting eligible list.

Veterans status is verified by the California Department of Human Resources (CalHR). Information on this program and the Veterans' Preference Application (Std. 1093) is available [online](#). Additional information on veteran benefits is available at the Department of Veterans Affairs.

## EXAMINATION INFORMATION

Preview of the [Transportation Engineering Technician Training and Experience Evaluation](#)

## PREPARING FOR THE EXAMINATION

Here is a list of suggested resources to have available prior to taking the exam.

**Employment History:** Employment dates, job titles, organization names and addresses, names of supervisors or persons who can verify your job responsibilities, and phone numbers of persons listed above.

**Education:** School names and addresses, degrees earned, dates attended, courses taken (verifiable on a transcript), persons or office who can verify education, and phone numbers of persons or offices listed above.

**Training:** Class titles, certifications received, names of persons who can verify your training, and phone numbers of persons listed above.

## TAKING THE EXAMINATION

Take the [Transportation Engineering Technician](#) exam.

## TESTING DEPARTMENTS

California Department of Transportation

## CONTACT INFORMATION

Questions regarding this examination should be directed to:

The California Department of Human Resources Selection Division  
1515 S Street, North Building, Suite 400  
Sacramento, CA 95811-7258  
1-866-844-8671

California Relay Service: (7-1-1)

Telecommunications Device for the Deaf (TTY) (916) 654-6336

TTY is a telecommunications device that is reachable only from phones equipped with a TTY device.

## **EQUAL OPPORTUNITY EMPLOYER**

The State of California is an equal opportunity employer to all, regardless of age, ancestry, color, disability (mental and physical), exercising the right of family care and medical leave, gender, gender expression, gender identity, genetic information, marital status, medical condition, military or veteran status, national origin, political affiliation, race, religious creed, sex (includes pregnancy, childbirth, breastfeeding, and related medical conditions), and sexual orientation.

## **DRUG-FREE STATEMENT**

It is an objective of the State of California to achieve a drug-free State work place. Any applicant for State employment will be expected to behave in accordance with this objective, because the use of illegal drugs is inconsistent with the law of the State, the rules governing civil service, and the special trust placed in public servants.

## **GENERAL INFORMATION**

Examination and/or Employment Application (STD 678) forms are available at the California Department of Human Resources, local offices of the Employment Development Department, and through your [CalCareer Account](#).

If you meet the requirements stated on this examination bulletin, you may take this examination, which is competitive. Possession of the entrance requirements does not assure a place on the eligible list. Your performance in the examination described in this bulletin will be rated against a predetermined job-related rating, and all applicants who pass will be ranked according to their score.

The California Department of Transportation reserves the right to revise the examination plan to better meet the needs of the service, if the circumstances under which this examination was planned change. Such revision will be in accordance with civil service laws and rules and all applicants will be notified.

**General Qualifications:** Applicants must possess essential personal qualifications including integrity, initiative, dependability, good judgement, the ability to work cooperatively with others, and a state of health consistent with the ability to perform the assigned duties of the class. A medical examination may be required. In open examinations, investigation may be made of employment records and personal history and fingerprinting may be required.

**Eligible Lists:** Eligible lists established by competitive examination, regardless of date, must be used in the following order: 1) sub-divisional promotional, 2) departmental promotional, 3) multi-departmental promotional, 4) servicewide promotional, 5) departmental open, 6) open. When there are two lists of the same kind, the older must

be used first. Eligible lists will expire in one to four years unless otherwise stated on the bulletin.

High School Equivalence: Equivalence to completion of the 12<sup>th</sup> grade may be demonstrated in any one of the following ways: 1) passing the General Education Development (GED) Test; 2) completion of 12 semester units of college-level work; 3) certification from the State Department of Education, a local school board, or high school authorities that the competitor is considered to have education equivalent to graduation from high school; or 4) for clerical and accounting classes, substitution of business college work in place of high school on a year-for-year basis.